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<!--StartFragment-->RESULT 4
ADS23079
ID
    ADS23079 standard; protein; 554 AA.
ХX
AC
    ADS23079;
XX
DΤ
    15-JUN-2007 (revised)
DT
    02-DEC-2004 (first entry)
XX
DE
    Bacterial polypeptide #12112.
XX
KW
     Recombinant DNA construct; transformed plant; improved plant property;
KW
     cold tolerance; heat tolerance; drought tolerance; herbicide; osmosis;
KW
     pathogen tolerance; pest tolerance; plant disease resistance;
KW
    cell cycle pathway modification; plant growth regulator;
KW
    homologous recombination; seed oil yield; protein yield; carbohydrate;
KW
    nitrogen; phosphorus; photosynthesis; lignin; galactomannan;
KW
     bacterial polypeptide; BOND_PC; alpha-glucosidase;
KW
     alpha-glucosidase [Mesorhizobium loti MAFF303099].
XX
os
    Bacteria.
XX
PN
     US2003233675-A1.
XX
PD
     18-DEC-2003.
XX
PF
     20-FEB-2003; 2003US-00369493.
XX
PR
     21-FEB-2002; 2002US-0360039P.
XX
PA
    (CAOY/) CAO Y.
PA
    (HINK/) HINKLE G J.
PA
    (SLAT/) SLATER S C.
PA
     (CHEN/) CHEN X.
PA
    (GOLD/) GOLDMAN B S.
XX
PΙ
    Cao Y, Hinkle GJ, Slater SC, Chen X, Goldman BS;
XX
DR
    WPI; 2004-061375/06.
DR
    PC:NCBI; gi13474261.
XX
PT
    New recombinant DNA construct comprising a promoter positioned to provide
PT
     for expression of a polynucleotide encoding a polypeptide from a
PΤ
    microbial source, useful for producing plants with improved properties.
XX
PS
    Claim 1; SEO ID NO 12112; 122pp; English.
XX
CC
     The invention relates to a recombinant DNA construct comprising a
CC
     promoter functional in a plant cell, where the promoter is positioned to
CC
    provide for expression of a polynucleotide encoding a polypeptide from a
CC
    microbial source. The invention also relates to a transformed plant
CC
    comprising the recombinant DNA construct and a method of producing a
CC
    transformed plant having an improved property. The plant is a crop plant
CC
    such as maize or soybean. The method of producing a transformed plant
CC
    having an improved property comprises transforming a plant with the
CC
    recombinant DNA construct and growing the transformed plant, where the
CC
    polynucleotide or polypeptide is useful for improving plant properties.
CC
    The recombinant DNA construct is useful for producing plants with
CC
    improved plant properties, e.q. improved cold, heat or drought tolerance,
CC
    tolerance to herbicides, extreme osmotic conditions, pathogens or pests,
CC
     increased resistance to plant disease, better growth rate by modification
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of the cell cycle pathway with plant growth regulators, increased rate of

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CC
    homologous recombination, modified seed oil or protein yield and/or
CC
    content, improved yield by modification of carbohydrate, nitrogen or
CC
   phosphorus use and/or uptake, by modification of photosynthesis or by
CC
   providing improved plant growth and development under at least one stress
CC
    condition, improved lignin production or improved galactomannan
CC
   production. This sequence represents a bacterial polypeptide used in the
CC
    scope of the invention. Note: The sequence data for this patent did not
CC
    form part of the printed specification but was obtained in electronic
    format from USPTO at segdata.uspto.gov/seguence.html.
CC
    Revised record issued on 15-JUN-2007 : Enhanced with precomputed
CC
   information from BOND.
XX
SO
  Sequence 554 AA;
                    54.2%; Score 1584; DB 8; Length 554;
 Query Match
 Best Local Similarity 56.7%; Pred. No. 7.4e-141;
 Matches 304: Conservative 67: Mismatches 155: Indels 10: Gaps
                                                               7:
         3 EWWRGAVTYQVYPRSFQDSNGDGIGDLPGITARLEYLADLGVDAVWLSPFFKSPMKDMGY 62
Οv
           18 DWWRGAVIYQIYPRSYQDSNGDGIGDLKGIIERLPYIAALGADAIWISPFFKSPMKDFGY 77
Db
        63 DVSDYCDVDPVFGTLADFDALLARAHELGLKVIIDOVLSHSSDLHPAFVTSRSDRVNPKA 122
Qу
           78 DVSDYCDVDPMFGTLADFDALTAEAHRLGLKVMIDEVLSHTADIHPWFKESRSSRSNPKA 137
Dh
        123 DWYVWADPKPDGSPPNNWLSVFGGSAWAWDARRKQYYLHNFLTSQPDLNYHNPKVQDWAL 182
Qv
           Db
        138 DWYVWADARPDGTPPNNWLSIFGGSAWOWDTSROOYYLHNFLAEOPDLNFHNREVODALL 197
Qν
        183 DNMRFWLDRGVDGFRFDTVNYFFHDPLLRSN---PADHRNKPEADG-NPYGMOYHLHDKN 238
           Db
        198 DVTRFWLERGVDGFRLDTINFYFHSQGLENNPPLPPEERNDQTAPAVNPYNYQDHLYDKS 257
Qу
        239 OPENLIWMERIRVLLDOYGA-ASVGEMGESHHAIRMMGDYTAPG-RLHOCYSFEFMGYE- 295
           258 RPENLGFLERFRALLDEYPATAAVGEVGDSQRGLEVVAAYTAGGKRVHMCYSFDFLAPEK 317
Db
        296 YTANLFRDRIESFFKGAPKGWPMWAFSNHDVVRHVSRWAKHGLTPEAVAKOTGALLLSLE 355
Qy
            Db
        318 ISAAKVRSVLEAFGKVASDGWSCWAFSNHDVMRPASRWAAGEADPVAYLKVISALLMSLR 377
        356 GSICLWEGEELGOTDTELALDELTDPQGIVFWPEPIGRDNTRTPMVWDA-SPHGGFSTVT 414
Qv
           Db
        378 GSVCIYQGEELGLGEAELRFEDLQDPYGIRFWPEFKGRDGCRTPMVWDGDAKNGGFSQAK 437
Οv
        415 PWLPVKPEOAARHVAGOTGDAASVLESYRAMLAFRRAEPALRTGRTRFLDLAEPVLGFVR 474
           438 PWLPVPAKHLAGAVNVOGGDOASLLEHYRRFLSFRRAHPALAKGDITFIESEGDTVAFTR 497
Db
        475 GEGEGAILCLFNL--SPVARGVAVEGVGPPIGPGOOAILSGGRLGLGPNGAAFLRV 528
Qy
            1 ::1:111 1 : : 1 | 1 | 1 : 1 | 1 | 1 : 1
        498 RAGNEOVVCVFNLGAKPAKVDLGSRSLOPLPGHGFSGOARPGSIELGGYGAWFGRI 553
<!--EndFragment-->
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